Title: SYSTEMS AND METHODS FOR ROUTING EMPLOYING LINK STATE AND PATH VE CTOR TECHNIQUES

Inventor: Susan Hares Docket No.: 41434-8003.US00 Perkins Coie LLP (650) 838-4300

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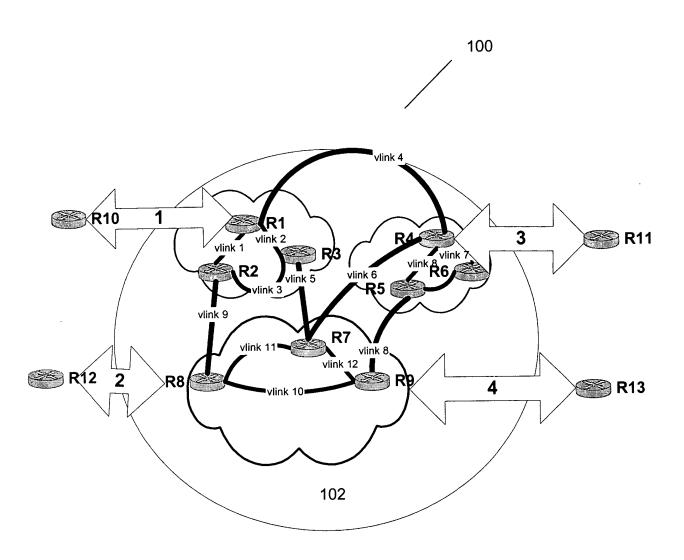


Figure 1

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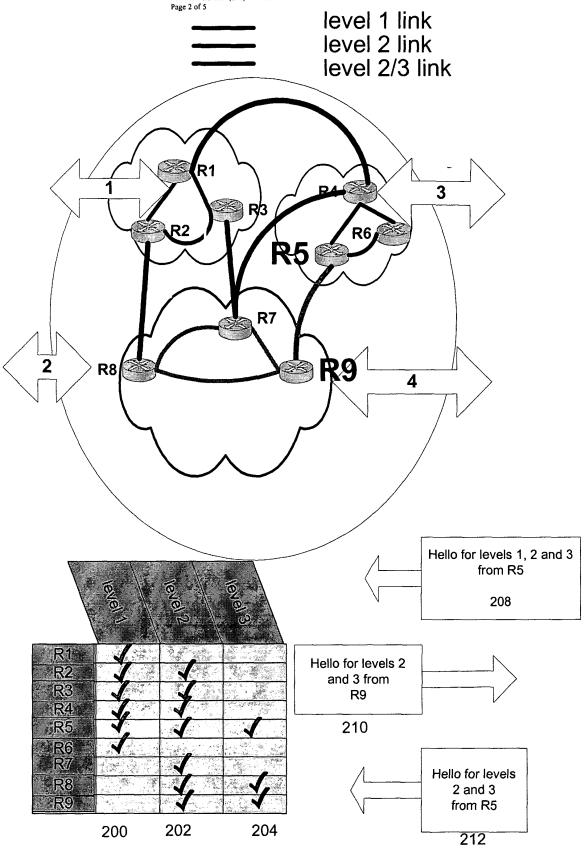


Figure 2

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300

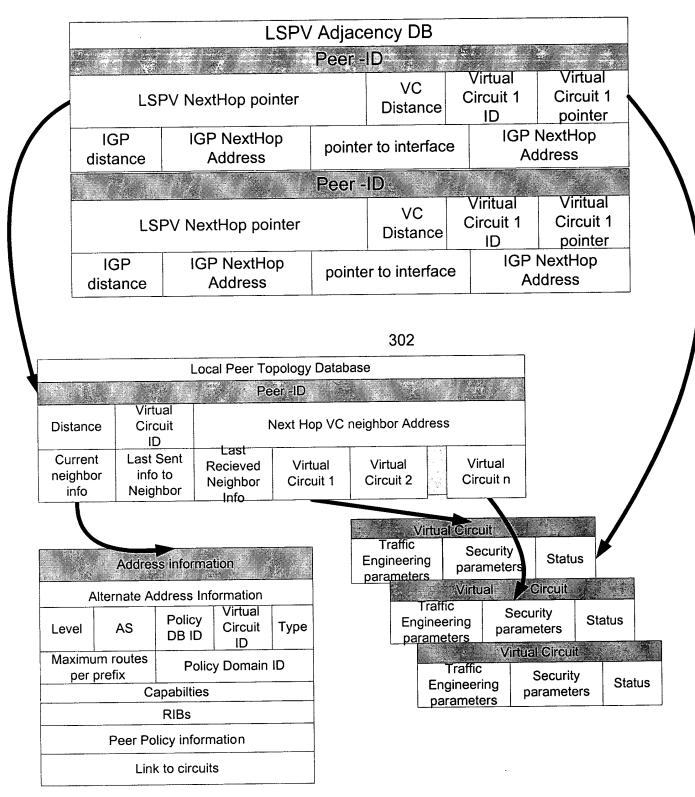


Figure 3

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protocol descrimi n-ator (0x85) fixed length version length

		reserve	
level,	minor 📗		max
		d /	
type			routes
	ersion		
field		Ack	

400

level, type LLLLL TTT Format: LLLLL TTT

LLLLL: level of the LSPV peer, either

numbers 0-32 or bit mask for levels

1-5

reserved / Ack /Level type Format: 00000 LL

Where LL may take one of the following values:

00 - single hello per pdu

01 - hello uses bit mask

10 - hello uses extended field

11 - reserved

Figure 4

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protocol descrim -in-ator (0x85)	fixed length	version = 01	ID length = 6	01110, 001 [levels 1-3, hello]	minor version	000 000 01 [level bit mask]	max routes/ prefix =15
circuit id [01 - local tunnel id]	src id = 192.	src id = 10.	src id = 15.	src id = .5	src-id 10	src-id 10	hold time (1) = 0
Holding Time (2) = 120	Pdu length (1)	Pdu Length (2)	Priority (1)	LAN ID = 01	Global src-id (1) 5	Global src-id (2) = [Policy Domain 0.0.0.0.1]	Global src-id (3) = [Policy Domain 0.0.0.0.1]
Global src-id (4) = [Policy Domain 0.0.0.0.1]	Global src-id (5) = [Policy Domain 0.0.0.0.1]	Global src-id (6) = [Policy Domain 0.0.0.0.1]	length / (1)	e length (2)	TLV = Security (4)	TLV length (1)	TLV length (2)
Security ID = 20	type of associ- ation =/ Peer (0)	security info = TCP authenti c-ation	auth- type = HMAC MD5	length (4)	Pass = hope		
	TLV = RIBs (4)	TLV length (1)	TLV length (2)	RIB ID	Support = Graceful restart, Route Refresh NLRI	AFI (1) AF	l (2) = IP v4
SAFI = Unicast only	Restart state = [0 0 60] not restart, not awaiting End of RIB, 60second restart	Number of Communities associated with RIB	500				

Figure 5